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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/682,542	10/09/2003	Susie J. Wee	200315123-1	8755
22879 7590 02/26/2008 HEWLETT PACKARD COMPANY P O BOX 272400, 3404 E. HARMONY ROAD INTELL FOR LAL PROPERTY A DMINISTRATION			EXAMINER	
			BAUTISTA, XIOMARA L	
	INTELLECTUAL PROPERTY ADMINISTRATION FORT COLLINS, CO 80527-2400		ART UNIT	PAPER NUMBER
			2179	
			NOTIFICATION DATE	DELIVERY MODE
			02/26/2008	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

JERRY.SHORMA@HP.COM mkraft@hp.com ipa.mail@hp.com

	Application No.	Applicant(s)		
	10/682,542	WEE ET AL.		
Office Action Summary	Examiner	Art Unit		
	X. L. Bautista	2179		
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence address		
A SHORTENED STATUTORY PERIOD FOR REPL' WHICHEVER IS LONGER, FROM THE MAILING D. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period of the period for reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be time will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	lely filed the mailing date of this communication. (35 U.S.C. § 133).		
Status				
Responsive to communication(s) filed on 14 D This action is FINAL . 2b) ☐ This Since this application is in condition for allowed closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro			
Disposition of Claims				
4) ☐ Claim(s) 1-45 is/are pending in the application 4a) Of the above claim(s) is/are withdray 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-45 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/o Application Papers 9) ☐ The specification is objected to by the Examine	wn from consideration. or election requirement. or.			
10)☑ The drawing(s) filed on <u>09 October 2003</u> is/are Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11)☐ The oath or declaration is objected to by the Ex	drawing(s) be held in abeyance. See tion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).		
Priority under 35 U.S.C. § 119				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4)			
Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Informal P 6) Other:			

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DETAILED ACTION

Reopening Prosecution after Appeal Brief

1. In view of the appeal brief filed on 11 August 2006, PROSECUTION IS HEREBY REOPENED. A new ground of rejection is set forth below.

- 2. To avoid abandonment of the application, appellant must exercise one of the following two options:
- (1) file a reply under 37 CFR 1.111 (if this Office action is non-final) or a reply under 37 CFR 1.113 (if this Office action is final); or,
- (2) initiate a new appeal by filing a notice of appeal under 37 CFR 41.31 followed by an appeal brief under 37 CFR 41.37. The previously paid notice of appeal fee and appeal brief fee can be applied to the new appeal. If, however, the appeal fees set forth in 37 CFR 41.20 have been increased since they were previously paid, then appellant must pay the difference between the increased fees and the amount previously paid.

A Supervisory Patent Examiner (SPE) has approved of reopening prosecution by signing below.

Response to Arguments

3. Applicant's arguments, see Appeal Brief, filed 12/14/2007, with respect to the rejection(s) of claim(s) 1-45 under 35 U.S.C. 103(a) have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of Aoki et al, Uchihashi et al and Rui et al.

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Specification

4. The specification is objected to as failing to provide proper antecedent basis for the claimed subject matter. See 37 CFR 1.75(d)(1) and MPEP § 608.01(o).

Correction of the following is required: Applicant claims a "computer-readable storage media" in claims 34-45, which is not defined in the specification.

Drawings/Specification

5. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they do not include the following reference sign(s) mentioned in the description: the description of figure 3 in the specification includes an element 13, which is not included in the drawing; and the description of figure 5 in the specification includes an element 252, which is not included in the drawing; the description of figure 6 includes an element 360, which is not included in the drawing but the drawing includes an element 310, which is not described in the specification.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

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Applicant is required to amend the specification as needed to include any drawing corrections.

Claim Objections

6. Claim 9 is objected to because of the following informalities: "the communication interactions include a communication interaction pertains to…" should be changed to --the communication interactions include a communication interaction that pertains to--. Correction is required.

Claim Rejections - 35 USC § 103

- 7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 8. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

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9. Claims 1-8, 14-29, 32-41, 44 and 45 are rejected under 35 U.S.C. 103(a) as being unpatentable over Aoki et al (US 2004/0172255 A1) and Uchihashi et al (US 2004/0201710 A1).

Claims 1 and 22:

Aoki discloses a system for communication (abstract; p. 1, par. 0011). Aoki discloses a first set of sensing and rendering components arranged to cover physical movements of multiple individuals present in a first environment. Aoki teaches a plurality of sensing components, such as microphones (p. 3, par. 0047) and vocalization detectors (p. 3, par. 0047); and rendering components, such as visual displays (p. 12, par. 0157; fig. 1), headphones (p. 14, par. 0170, lines 1-11), and audio speakers (p. 3, par. 0046), to cover physical activities and/or presence (tracking users' physical locations: p. 13, par. 0168, lines 8-10) of the individuals present in the environment. Aoki explains that the sensing and rendering components are used for detecting conversational characteristics (p. 4-5, par. 0061), such as user's physiological reactions (p. 9, par. 0114), user's vocalizations (p. 9, par. 0115), user's physical activity (p. 13, par. 0168), gestures such as mouse-clicks, button pushes, or voice commands directed at a computer (p. 14, par. 0174) of multiple individuals present in a (first environment) conversational floor (p. 1, par. 0012, 0013). Aoki teaches a context-awareness system that may be combined with many kinds of physical sensor data and computer application data to make assessments of user activity; the system being capable of tracking user's physical locations within a building and compute which users are co-present in a room (motion or presence detection), (p. 13-14, par. 0168).

Aoki discloses a second set of sensing and rendering components arranged to cover

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physical movements of multiple individuals in a second environment. Aoki teaches a system that enables groups and subgroups of people to communicate and carry on separate conversations within the context of a meeting (p. 1-2, par. 0011-0014). Aoki explains that the invention can include additional types of inferential analysis that use input data other than those directly affected by conversation. The system may combine many kinds of physical sensor data and computer application data (p. 14, par. 0170) to make assessment of user activity for users who are co-present in a room and/or users who are not present (first and second environments) in the room (p. 13, par. 0168-0169).

Aoki discloses interest thread detector that uses the first and second set of sensing and rendering components to detect multiple communication interactions each involving a respective subset of the individuals present in the first and second environments and that maintains an interest thread for each communication interaction. Aoki teaches detecting multiple communication interactions involving subgroups of individuals present in the same or in different environments (p. 13-14, par. 0168-0169). Aoki teaches maintaining an interest thread for each communication interaction (p. 14, par. 0170). Aoki explains that the invention has a floor analysis module used to analyze data for conversational characteristics and that its results are used to determine user's activities, specify a set of mixing parameters, and communicate the mixing parameters over a floor control path (p. 4, par. 0056, 0061; p. 5, par. 0061-0062; p. 6, par. 0072, 0073, 0076).

Aoki discloses communication provider that captures a set of media data from the sensing components and that combines the captured media data in response to the respective

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activities of each subset of the individuals and that communicates the combined media data to the rendering components. Aoki teaches a communication system and a method for receiving a plurality of communications from a plurality of communication sources; for mixing the plurality of communication for a plurality of outputs associated with the plurality of communication sources (p. 1, par. 0011-0013; p. 2, par. 0014-0015). Aoki teaches combining the captured media data and communicating the combined media data to the rendering components (p. 14, par. 0173-0178). Aoki teaches a plurality of modules and a "conversational floor configuration thread" for analyzing conversational characteristics of the plurality of individuals (p. 4, par. 0056-0058, 0061, 0062), and using the results of the analysis to control the floor controls and/or set of mixing parameters. Aoki explains that the floor configuration thread is invoked by the "invoke floor configuration thread" and that this thread is responsible for receiving results of the individual analysis modules, determining and selecting the configuration of audio sources from these results (p. 6, par. 0076).

Aoki teaches analyzing data for conversational characteristics that can be determined from analysis of audio information or from physiological responses to the conversation, such as responses measured by a biometric device and/or information from an eye-tracker device (par. 0114) but Aoki does not specifically teach detecting physical movement of the individuals. However, **Uchihashi** discloses a system and method for computer assisted recording or capture of meetings or presentation events (abstract; p. 1, par. 0008). Uchihashi teaches a system having multiple cameras and sensors (p. 1, par. 0017, 0019) for detecting physical motion of humans present in a conference (p. 2, par. 0022-0024, 0029; p. 4, par. 0046-0047). Uchihashi teaches

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displaying "candidate activity events", which are events of potential interest (interest thread) in the meeting (p. 5, par. 0051). Therefore, it would have been obvious to one ordinarily skilled in the art at the time the invention was made to modify Aoki's method of determining and analyzing the activities of multiple participants in a meeting to include Uchihashi's teaching of using sensors to capture physical movements of the participants because as Uchihashi says, the system follows the flow of the individuals' and/or the presentation's activities within the conference or meeting, and also because delays caused by camera switching latency is reduced or eliminated when the system captures only those activities that are of real interest to the meeting.

Claims 2, 23 and 35:

See claim 1. Aoki teaches selecting respective subsets of the first and second set of sensing and rendering components for use for each communication interaction (interest thread) or user's activities. Aoki explains that a meeting can have subgroups of people who carry on separate conversations, and that each subgroup can maintain awareness of the primary group conversation (p. 2, par. 0038). Aoki teaches a conversational floor wherein users are enabled to have side conversations in the conversational environment (p. 6-7, par. 0081-0082; p. 9-10, par. 0120).

Claims 3, 24 and 36:

Aoki teaches activities including speech levels of the individuals (user's vocalization) involved in the communication interaction (p. 3, par. 0035; p. 9, par. 0115, 0118).

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Claims 4, 25 and 37:

Uchihashi teaches activities including gestures by the individuals involved in the communication interaction (p. 3, par. 0035).

Claims 5, 18, 20, 26 and 38:

Uchihashi teaches activities including movements by the individual involved in a respective interest thread (p. 2, par. 0022-0024, 0029; p. 4, par. 0046-0047).

Claims 6, 27 and 39:

Uchihashi teaches capturing and storing location information about identified objects and individuals within the conference room (p. 3, par. 0031; p. 4, par. 0043).

Claims 7, 28 and 40:

Aoki teaches refining captured data (p. 3, par. 0048). Uchihashi teaches processing the raw sensor information (p. 2, par. 0021; p. 4, par. 0045; p. 5, par. 0051).

Claims 8, 29 and 41:

Aoki/Uchihashi teaches storing captured data (Aoki: par. 0047; Uchihashi: par. 0022, 0031, 0033).

Claims 14-15, 32-33 and 44-45:

See claim 1. Aoki teaches capturing communication interactions (interest threads) of conversational activities of different groups of individuals (main conversation and side conversation) creating in this way interest area for separate detected activities (p. 6-7, par. 0081; p. 9-10, par. 0120, 0130; p. 13, par. 0168).

Claims 16 and 17:

See claim 1. Aoki teaches communication interactions involving two or more individuals (p. 1, par. 0011) in two or more environments (p. 13-14, par. 0168-0169).

Claim 19:

Aoki/Uchihashi teaches movement pertaining to rendering devices (Uchihashi: p. 2, par. 0020; p. 3, par. 0035).

Claim 21:

See claim 1. Aoki teaches participants may be in the same room or at a remote location (p. 13-14, par. 0168, 0170).

Claim 34:

See claim 1. Aoki discloses a computer-readable media that containing code (p. 4, par. 0050, lines 1-4).

10. Claims 9-13, 30, 31, 42 and 43 are rejected under 35 U.S.C. 103(a) as being unpatentable over Aoki/Uchihashi and Rui et al (US 2002/0191071 A1).

Claims 9-13, 30, 31, 42 and 43:

Aoki/Uchihashi teaches tracking interactions pertaining to an individual or an object (p. 2, par. 0020, 0031) but it does not teach communication interactions pertaining to an artifact that changes over time. However, Rui discloses a method for recording and broadcasting meetings (abstract; p. 1, par. 0009) wherein communication interactions that pertain to an artifact, such as a whiteboard, are captured and stored (p. 1-2, par. 0010). Thus, it would have been obvious to a

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person having ordinary skill in the art at the time the invention was made to modify

Aoki/Uchihashi's method of capturing communication interactions to include Rui's teaching of
capturing communication interactions that pertain to devices because the participants are enabled
to share a workspace, such as a whiteboard, and capture annotations that can be viewed by all
participants in the conference room and then later reviewed by those individuals who were or
were not present in the meeting.

Conclusion

- 11. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
- 12. Any inquiry concerning this communication or earlier communications from the examiner should be directed to X. L. Bautista whose telephone number is (571) 272-4132. The examiner can normally be reached on Monday-Thursday 8:00AM-6:00PM.

 If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor,

 Weilun Lo can be reached on (571) 272-4847. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.
- 13. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR

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system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would

like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/X. L. Bautista/

Primary Examiner, Art Unit 2179

/Weilun Lo/

Supervisory Patent Examiner, Art Unit 2179